

SEQUENCE LISTING

<110> RONN, LARS CHRISTIAN
 HOLM, ARNE
 OLSEN, MARIANNE
 OSTERGAARD, SOREN
 JENSEN, PETER H.
 POULSEN, FLEMMING M.
 SOROKA, VLADISLAV
 RALETS, IGOR
 BEREZIN, VLADIMIR
 BOCK, ELISABETH

<120> NCAM BINDING COMPOUNDS

<130> 12596/P66506US0

<140> 09/787,443
 <141> 2001-03-29

<150> PA 1998 01232
 <151> 1998-09-29

<150> PA 1999 00592
 <151> 1999-04-29

<160> 44

<170> PatentIn Ver. 2.1

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<400> 1
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 1 5 10

<210> 2
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<220>
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 peptide

<400> 2
 Ala Lys Lys Glu Arg Gln Arg Lys Asp Thr Gln
 1 5 10

<210> 3
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<220>
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 peptide

<400> 3
 Ala Arg Ala Leu Asn Trp Gly Ala Lys Pro Lys
 1 5 10

<210> 4
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<400> 4
 Ala Gly Ser Ala Val Lys Leu Lys Lys Lys Ala
 1 5 10

<210> 5
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<220>
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 peptide

<400> 5
 Ala Lys Tyr Val Leu Ile Pro Ile Arg Ile Ser
 1 5 10

<210> 6
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 peptide

<400> 6
 Ala Ser Thr Lys Arg Ser Met Gln Gly Ile
 1 5 10

<210> 7
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<212> PRT
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 peptide

<220>
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<400> 7
 Ala Arg Arg Ala Ile Leu Met Xaa Ala Leu
 1 5 10

<210> 8
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 peptide

<400> 8
 Ala Tyr Tyr Leu Ile Val Arg Val Asn Arg Ile
 1 5 10

<210> 9
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<400> 9
 Ala Thr Asn Lys Lys Thr Gly Arg Arg Pro Arg
 1 5 10

<210> 10
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<220>
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 peptide

<400> 10
 Ala Lys Arg Asn Gly Pro Leu Ile Asn Arg Ile
 1 5 10

<210> 11
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<212> PRT
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peptide

<400> 11
Ala Lys Arg Ser Val Gln Lys Leu Asp Gly Gln
1 5 10

<210> 12
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peptide

<400> 12
Ala Arg Gln Lys Thr Met Lys Pro Arg Arg Ser
1 5 10

<210> 13
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peptide

<400> 13
Ala Gly Asp Tyr Asn Pro Asp Leu Asp Arg
1 5 10

<210> 14
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peptide

<400> 14
Ala Arg Lys Thr Arg Glu Arg Lys Ser Lys Asp
1 5 10

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peptide

<400> 15
Ala Ser Gln Ala Lys Arg Arg Lys Gly Pro Arg
1 5 10

<210> 16
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Ala Pro Lys Leu Asp Arg Met Leu Thr Lys Lys
1 5 10

<210> 17
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<400> 17
Ala Lys Lys Glu Lys Pro Asn Lys Pro Asn Asp
1 5 10

<210> 18
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peptide

<400> 18
Ala Gln Met Gly Arg Gln Ser Ile Asp Arg Asn
1 5 10

<210> 19
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<400> 19
 Ala Glu Gly Gly Lys Lys Lys Lys Met Arg Ala
 1 5 10

<210> 20
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<400> 20
 Ala Lys Lys Lys Glu Gln Lys Gln Arg Asn Ala
 1 5 10

<210> 21
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<400> 21
 Ala Lys Ser Arg Lys Gly Asn Ser Ser Leu Met
 1 5 10

<210> 22
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<220>
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<400> 22
 Ala Arg Lys Ser Arg Asp Met Thr Ala Ile Lys
 1 5 10

<210> 23
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<400> 23
 Gly Arg Ile Leu Ala Arg Gly Glu Ile Asn Phe Lys
 1 5 10

<210> 24
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<400> 24
 Gly Ser Ile Leu Ala Ser Gly Glu Ser Asn Phe Lys
 1 5 10

<210> 25
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<400> 25
 Gly Arg Ile Leu Ala Arg Gly Ser Ser Asn Phe Lys
 1 5 10

<210> 26
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<400> 26
 Gly Glu Ile Ser Val Gly Glu Ser Lys Phe Phe Leu
 1 5 10

<210> 27
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<223> Description of Artificial Sequence: Synthetic peptide

<400> 27

Lys Lys Pro Lys

1

<210> 28

<211> 4

<212> PRT

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<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 28

Lys Lys Glu Lys

1

<210> 29

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 29

Lys Lys Glu Arg

1

<210> 30

<211> 75

<212> DNA

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<223> Description of Artificial Sequence: Primer

<400> 30

ctgcaggtag atattgttcc cagccaagga gccatcagcg ttggagcctc cgccttcttc 60
ctgtgtcaag tggca 75

<210> 31

<211> 72

<212> DNA

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<223> Description of Artificial Sequence: Primer

<400> 31
 attcacaatg acctgaatgt ccttgaagtt gatggcccccg gcggccagga tggcgccctc 60
 acagcggtaa gt 72

<210> 32
 <211> 11
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<220>
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 peptide

<400> 32
 Ala Arg Lys Thr Lys Ser Arg Glu Arg Lys Asp
 1 5 10

<210> 33
 <211> 11
 <212> PRT
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<220>
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 peptide

<400> 33
 Ala Ser Lys Lys Pro Lys Ala Asn Ile Lys Ala
 1 5 10

<210> 34
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
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 peptide

<400> 34
 Ala Ser Lys Lys Pro Ala Ala Asn Ile Lys Ala
 1 5 10

<210> 35
 <211> 11
 <212> PRT
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<220>
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 peptide

<400> 35
Ala Ser Lys Ala Pro Ala Ala Asn Ile Lys Ala
1 5 10

<210> 36
<211> 11
<212> PRT
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<220>
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peptide

<400> 36
Ala Ser Ala Ala Pro Ala Ala Asn Ile Lys Ala
1 5 10

<210> 37
<211> 11
<212> PRT
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<220>
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peptide

<400> 37
Ala Ser Lys Lys Ala Lys Arg Asn Ile Lys Ala
1 5 10

<210> 38
<211> 11
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<220>
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peptide

<400> 38
Ala Lys Lys Lys Lys Arg Ile Ser Ala Asn Pro
1 5 10

<210> 39
<211> 11
<212> PRT
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<220>
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peptide

<400> 39

Pro Asn Ala Ser Ile Arg Lys Lys Lys Lys Ala
1 5 10

<210> 40

<211> 11

<212> PRT

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<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 40

Lys Asn Ser Pro Lys Ala Arg Ile Lys Ala Lys
1 5 10

<210> 41

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 41

Arg Thr Lys Gln Asp Lys Ala Gln Glu Arg Lys
1 5 10

<210> 42

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 42

Gly Leu Lys Arg Trp Ala Pro Asn Lys Ala Ala
1 5 10

<210> 43

<211> 6

<212> PRT

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<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 43

Lys Lys Lys Lys Lys Lys

1

5

<210> 44

<211> 848

<212> PRT

<213> Homo sapiens

<400> 44

Met Leu Gln Thr Lys Asp Leu Ile Trp Thr Leu Phe Phe Leu Gly Thr

1

5

10

15

Ala Val Ser Leu Gln Val Asp Ile Val Pro Ser Gln Gly Glu Ile Ser

20

25

30

Val Gly Glu Ser Lys Phe Phe Leu Cys Gln Val Ala Gly Asp Ala Lys

35

40

45

Asp Lys Asp Ile Ser Trp Phe Ser Pro Asn Gly Glu Lys Leu Thr Pro

50

55

60

Asn Gln Gln Arg Ile Ser Val Val Trp Asn Asp Asp Ser Ser Ser Thr

65

70

75

80

Leu Thr Ile Tyr Asn Ala Asn Ile Asp Asp Ala Gly Ile Tyr Lys Cys

85

90

95

Val Val Thr Gly Glu Asp Gly Ser Glu Ser Glu Ala Thr Val Asn Val

100

105

110

Lys Ile Phe Gln Lys Leu Met Phe Lys Asn Ala Pro Thr Pro Gln Glu

115

120

125

Phe Arg Glu Gly Glu Asp Ala Val Ile Val Cys Asp Val Val Ser Ser

130

135

140

Leu Pro Pro Thr Ile Ile Trp Lys His Lys Gly Arg Asp Val Ile Leu

145

150

155

160

Lys Lys Asp Val Arg Phe Ile Val Leu Ser Asn Asn Tyr Leu Gln Ile

165

170

175

Arg Gly Ile Lys Lys Thr Asp Glu Gly Thr Tyr Arg Cys Glu Gly Arg

180

185

190

Ile Leu Ala Arg Gly Glu Ile Asn Phe Lys Asp Ile Gln Val Ile Val

195

200

205

Asn Val Pro Pro Thr Ile Gln Ala Arg Gln Asn Ile Val Asn Ala Thr

210

215

220

Ala Asn Leu Gly Gln Ser Val Thr Leu Val Cys Asp Ala Glu Gly Phe

225

230

235

240

Pro Glu Pro Thr Met Ser Trp Thr Lys Asp Gly Glu Gln Ile Glu Gln

245

250

255

Glu Glu Asp Asp Glu Lys Tyr Ile Phe Ser Asp Asp Ser Ser Gln Leu
 260 265 270

Thr Ile Lys Lys Val Asp Lys Asn Asp Glu Ala Glu Tyr Ile Cys Ile
 275 280 285

Ala Glu Asn Lys Ala Gly Glu Gln Asp Ala Thr Ile His Leu Lys Val
 290 295 300

Phe Ala Lys Pro Lys Ile Thr Tyr Val Glu Asn Gln Thr Ala Met Glu
 305 310 315 320

Leu Glu Glu Gln Val Thr Leu Thr Cys Glu Ala Ser Gly Asp Pro Ile
 325 330 335

Pro Ser Ile Thr Trp Arg Thr Ser Thr Arg Asn Ile Ser Ser Glu Glu
 340 345 350

Lys Thr Leu Asp Gly His Met Val Val Arg Ser His Ala Arg Val Ser
 355 360 365

Ser Leu Thr Leu Lys Ser Ile Gln Tyr Thr Asp Ala Gly Glu Tyr Ile
 370 375 380

Cys Thr Ala Ser Asn Thr Ile Gly Gln Asp Ser Gln Ser Met Tyr Leu
 385 390 395 400

Glu Val Gln Tyr Ala Pro Lys Leu Gln Gly Pro Val Ala Val Tyr Thr
 405 410 415

Trp Glu Gly Asn Gln Val Asn Ile Thr Cys Glu Val Phe Ala Tyr Pro
 420 425 430

Ser Ala Thr Ile Ser Trp Phe Arg Asp Gly Gln Leu Leu Pro Ser Ser
 435 440 445

Asn Tyr Ser Asn Ile Lys Ile Tyr Asn Thr Pro Ser Ala Ser Tyr Leu
 450 455 460

Glu Val Thr Pro Asp Ser Glu Asn Asp Phe Gly Asn Tyr Asn Cys Thr
 465 470 475 480

Ala Val Asn Arg Ile Gly Gln Glu Ser Leu Glu Phe Ile Leu Val Gln
 485 490 495

Ala Asp Thr Pro Ser Ser Pro Ser Ile Asp Gln Val Glu Pro Tyr Ser
 500 505 510

Ser Thr Ala Gln Val Gln Phe Asp Glu Pro Glu Ala Thr Gly Gly Val
 515 520 525

Pro Ile Leu Lys Tyr Lys Ala Glu Trp Arg Ala Val Gly Glu Glu Val
 530 535 540

Trp His Ser Lys Trp Tyr Asp Ala Lys Glu Ala Ser Met Glu Gly Ile
 545 550 555 560

Val	Thr	Ile	Val	Gly	Leu	Lys	Pro	Glu	Thr	Thr	Tyr	Ala	Val	Arg	Leu	565	570	575	
Ala	Ala	Leu	Asn	Gly	Lys	Gly	Leu	Gly	Glu	Ile	Ser	Ala	Ala	Ser	Glu	580	585	590	
Phe	Lys	Thr	Gln	Pro	Val	Gln	Gly	Glu	Pro	Ser	Ala	Pro	Lys	Leu	Glu	595	600	605	
Gly	Gln	Met	Gly	Glu	Asp	Gly	Asn	Ser	Ile	Lys	Val	Asn	Leu	Ile	Lys	610	615	620	
Gln	Asp	Asp	Gly	Gly	Ser	Pro	Ile	Arg	His	Tyr	Leu	Val	Arg	Tyr	Arg	625	630	635	640
Ala	Leu	Ser	Ser	Glu	Trp	Lys	Pro	Glu	Ile	Arg	Leu	Pro	Ser	Gly	Ser	645	650	655	
Asp	His	Val	Met	Leu	Lys	Ser	Leu	Asp	Trp	Asn	Ala	Glu	Tyr	Glu	Val	660	665	670	
Tyr	Val	Val	Ala	Glu	Asn	Gln	Gln	Gly	Lys	Ser	Lys	Ala	Ala	His	Phe	675	680	685	
Val	Phe	Arg	Thr	Ser	Ala	Gln	Pro	Thr	Ala	Ile	Pro	Ala	Asn	Gly	Ser	690	695	700	
Pro	Thr	Ser	Gly	Leu	Ser	Thr	Gly	Ala	Ile	Val	Gly	Ile	Leu	Ile	Val	705	710	715	720
Ile	Phe	Val	Leu	Leu	Leu	Val	Val	Val	Asp	Ile	Thr	Cys	Tyr	Phe	Leu	725	730	735	
Asn	Lys	Cys	Gly	Leu	Phe	Met	Cys	Ile	Ala	Val	Asn	Leu	Cys	Gly	Lys	740	745	750	
Ala	Gly	Pro	Gly	Ala	Lys	Gly	Lys	Asp	Met	Glu	Glu	Gly	Lys	Ala	Ala	755	760	765	
Phe	Ser	Lys	Asp	Glu	Ser	Lys	Glu	Pro	Ile	Val	Glu	Val	Arg	Thr	Glu	770	775	780	
Glu	Glu	Arg	Thr	Pro	Asn	His	Asp	Gly	Gly	Lys	His	Thr	Glu	Pro	Asn	785	790	795	800
Glu	Thr	Thr	Pro	Leu	Thr	Glu	Pro	Glu	Lys	Gly	Pro	Val	Glu	Ala	Lys	805	810	815	
Pro	Glu	Cys	Gln	Glu	Thr	Glu	Thr	Lys	Pro	Ala	Pro	Ala	Glu	Val	Lys	820	825	830	
Thr	Val	Pro	Asn	Asp	Ala	Thr	Gln	Thr	Lys	Glu	Asn	Glu	Ser	Lys	Ala	835	840	845	